केन्द्रीय क्षेत्र केन्द्रों अर्थात् कोरबा एसटीपीएस, विंध्याचल एसटीपीएस, कवास गैस विद्युत परियोजना, ककरापार एपीएस तथा तारापुर एपीएस से विद्युत का आबंटन किया गया है जिसका ब्यौरा नीचेदिया गया है:—

(आंकड़े मि०यू० में)

वर्ष	गुजरात	महाराष्ट्र
1990-91	4377.8	4818.7
1991-92	4943.9	5629.8
1992-93	5144.8	6449.7

Gas-Based and Coal-Based Power Plants

963. SHRI CHIMANBHAI MEHTA:
SHRIMATI RENUKA CHOWDHURY:
SHRI G.G. SWELL:
SHRIMATI SUSHMA SWARAJ:
SHRI SARADA MOHANTY:

Will the Minister of POWER be pleased to state:

(a) whether it is a fact that high cost gas is consumed by power houses when much cheaper alternative fuel of coal is available in plenty, if so, the reasons therefor;

(b) whether it is a fact that coal linkage is not provided to several power projects;

(c) whether it is also a fact that Power Project at Dhabol in Maharashtra is going to consume very high cost gas if so, the details thereof;

(d) what is the approved cost per million BTU of gas at Dhabol, equivalent value of coal and gas offered by Oman Oil Company;

(e) what is the efficiency of coal based and gas-based power plants; and

(f) what would be the cost of electricity generation per unit by coal-based and gas-based power plants?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P.V. RANGAYYA NAIDU): (a) Although the cost of gas is higher than that of coal, in terms of heat value, the fuel cost per kwh need not be higher since the power conversion efficiency of gas based combined cycle gas turbine power plant is higher than that of coal based power plant.

(b) Yes Sir. There are projects for which coal linkage has not been provided.

(c) and (d) The first phase of 695 MW of Dabhol Power Project will be run on distillate oil and the second phase of 1320 MW would be on liquefied Natural Gas (LNG) which will be imported. The LNG contract is yet to be finalised and there is no legal binding on MSES to go for phase II if it finds that the terms and conditions of the LNG contract are not acceptable to it.

(e) The efficiency of coal based power stations will depend upon the various factors, such as size of the units, steam parameters etc. Similarly the efficiency of gas based power plant will depend upon unit size, type of cycle, whether it is conventional or advanced cycle with high firing temperature. The net efficiency of modern coal fired power plant with until sizes

of 200 MW and above will be about 32 to 34%. The net efficiency of combined cycle gas based pwer plant with gas turbine of above 100 MW will be in the range of 45 to 47.5%.

(f) The cost of electricity generation of coal or gas based power plant will depend on various factors mentioned above. The present day estimated cost of electricity for CEA cleared coal based projects in 1993 ranges from Rs.1.52—2.32 per kwht. The cost of electricity from gas based power projects cleared by CEA in 1993 ranges from Rs.1.95—2.11 per kwhr based on completion cost of the project and the present day fuel cost.

Power Projects in Rajasthan

964. SHRI SHIV CHARAN SINGH: Will the Minister of POWER be pleased to state:

(a) what is the requirement of power in Rajasthan and quantum of power generation there;

(b) what is the number of power generation projects of Rajasthan under the consideration of the Ministry and what is the number of projects, which have been cleared this year;

(c) what are the names of places in Rajasthan earmarked for hydroelectricity generation schemes and what is their estimated cost and profit and loss position; and

(d) what are the names of places where projects for generation of wind power would be set up and by when alongwith quantum of electricity likely to be generated thereby?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P.V. RANGAYYA NAIDU): (a) During the period April, 1993 to January, 1994, the power supply position in Rajasthan was as under:

Requirement—12995 MU

Availability—12265 MU

(b) Two power projects of Rajasthan are under examination. One power project viz. Ramgarh CCGT Phase-I (1x35.5 MW) has been sanctioned by the Planning Commission during 1993-94.

(c) The Jakham Hydro electric project (2x2.5 MW) with an estimated cost of Rs.17.78 crores is scheduled to be commissioned during 9th Five Year Plan.

(d) A wind survey programme at certain locations in Rajasthan has been carried out, but sfficient wind speeds are not available for wind power projects.

Modernisation of Power Transmission System

965. SHRI B.K. HARIPRASAD: Will the Minister of POWER be pleased to state:

(a) whether Government's attention has been drawn to the Newsitem in the Economic Times daed the 12th February, 1994 stating that M/s. Hubbel Ohio Brass Company of USA has offered to modernise the power transmission systems in India;

(b) if so, whether Government would consider trials using polymer insulators, which are cheaper and do not reuire any change in existing transmission structures; and

(c) whether the Government are also considering other options to op-